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Piezoelectric ceramic material and piezoelectric ceramic sintered body obtained using the same

I Yoshizawa, K Horikawa... - US Patent 6,299,791, 2001 - Google Patents

... contain- 40 ing at least one of 0.005 to 0.040% by weight of **SiO2** and 0.005 ...

Narrow-band niters of conventional **Pb[(Mn1/3Nb2/3), Zr, Ti]O3** based piezoelectric ...

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Piezoelectric ceramic composition and piezoelectric element

R Tanimoto, Y Tsuji, M Kimura, H Takagi... - US Patent App. 09/933,410, 2001 - Google Patents

... to claim 1 and represented by the compositional formula **Pba{(Mn1/3Nb2/3)xZr**

Tiz}O3+b wt ... in which the elements constituting A is a combination of **Pb** and at ...

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Piezoelectric ceramic material, electronic part using the ceramic

M Kida, M Katsume - US Patent 6,511,763, 2003 - Google Patents

... 2)O3 and Nd(Mg1/2Tilx 2)O3; and compounds ... PbO, TiO2, ZrO2, MnCO3, Nb2O5, Cr2O3, **SiO2**, and A12O3 ... such that a piezoelectric ceramic comprising **Pb(Mn1/3Nb2/3)O** 10 ...

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PORCELAIN COMPOSITION

T Mori - 1990 - freepatentsonline.com

... 0.5-5.0wt.% **SiO2** fibers are incorporated into a four-component porcelain compsn.

represented by a formula AxByCzD1-xyz [where A is **Pb(Mn1/3Nb2/3)O3**, B is **Pb(Ni1** ...

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Piezoelectric ceramic composition and piezoelectric device

M Hirose, T Azuma, Y Niwa, M Abe - US Patent App. 10/559,740, 2004 - Google Patents

... In the case where Mn is included as an additive, in relation to **Pb [(Mn1/3Nb2/**

3)xTiyZrz]O3 in formula (1 ... [0045] In addition, **SiO2** may be included as an ...

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Piezoelectric ceramic composition and manufacturing the same, and piezoelectric element

T Azuma, M Hirose - US Patent App. 10/949,742, 2004 - Google Patents

... There are provided steps of polarizing a ceramic composition including a perovskite compound containing **Pb**, Zr, Ti ... **Pba[(Mn1/3Nb2/3)xTiy2rl]O3** Sample No ...

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Piezoelectric paste and piezoelectric film and piezoelectric part using the same

T Kubota - US Patent 6,355,185, 2002 - Google Patents

... Type PbO TiO2 ZrO2 **SiO2** parts by weight parts by weight a-1 62.9 ... a Zr/Ti ratio of 0.52/ 0.48, ie, a composition represented by **Pb(Zr0 52Ti0 48)O3**, 30 was ...

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Resonator

T Azuma, M Hirose, A Suzuki, K Taniwaki - US Patent App. 11/397,952, 2006 - Google Patents
... [0059] The quantity **a** representing the **Pb** content is pref ... 0.005 to 0.15 wt % with respect to the main component, especially $Pba[(Mn1/3Nb2/3)xTiyZrz]O3$
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Method of making lead zirconate titanate-based ceramic powder, piezoelectric ceramic and method for ...

K Nada, K Okada, M Kida - US Patent App. 10/240,845, 2002 - Google Patents
... may be replaced with Sr, Ba, La, Ca, or the like, or **SiO2**, $A12O3$, or ... oxide, for example, a $Pb(Mg1/3Nb2/3)(Zr,Ti)O3$ - based ceramic, a $Pb(Mn1/3Nb2/3)(Zr,Ti)$...
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Microstructure and Electromechanical Properties in PMnN-PZT Ceramics Sintered at Different ...

LI Baoshan, ZHU Zhigang, LI Guorong, D Aili - 材料科学技术学报(英文版), 2005 - scholar.lib.cn
... Baoshan LI , Zhigang ZHU , Guorong LI , Aili DING The microstructure and piezoelectric properties of $Pb[(Zr0.52Ti0.48)0.95(Mn1/3Nb2/3)0.05]O3$ (PMnN-PZT ...
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